

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant : Shunpei Yamazaki et al.                      Art Unit : 2624  
Serial No. : 09/833,674                                      Examiner : Anthony M. Mackowey  
Filed : April 13, 2001                                      Conf. No. : 2128  
Title : SYSTEM AND METHOD FOR IDENTIFYING AN INDIVIDUAL

**Mail Stop Appeal Brief - Patents**

Commissioner for Patents  
P.O. Box 1450  
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SUPPLEMENTAL BRIEF ON APPEAL

This Supplemental Appeal Brief is submitted pursuant to the Notification of Non-Compliant Appeal Brief dated February 12, 2008, the Brief on Appeal filed on January 18, 2007, the Notice of Appeal filed on October 25, 2007, and in support of the appeal from the Final Rejection set forth in the Office Action mailed on May 25, 2007. This Supplemental Brief addresses the issues raised in the Notification of Non-Compliant Appeal Brief.

**(1) Real Party in Interest**

Semiconductor Energy Laboratory Co., Ltd., the assignee of this application, is the real party in interest.

**(2) Related Appeals and Interferences**

There are no related appeals or interferences.

**(3) Status of Claims**

Claims 1-3, 6-9, 12-35, 38-43, 46-53, 56-59, 62-85, 88-93, 96-100 and 109-116 are currently pending, of which claims 1, 7, 13, 24, 35, 39, 43, 47, 51, 57, 63, 74, 85, 89, 93 and 97 are independent. Claims 13-34, 39-42, 47-50, 63-84, 89-92 and 97-100 have been withdrawn. Claims 1-3, 6-9, 12, 35, 38, 43, 46, 51-53, 56-59, 62, 85, 88, 93, 96, and 109-116 have been rejected, and the rejection of each of these claims is appealed.

**(4) Status of Amendments**

The claims have not been amended subsequent to the final rejection dated May 25, 2007. A listing of the current claims is attached.

**(5) Summary of Claimed Subject Matter**

In the discussion below, reference numerals and references to particular portions of the application are inserted for illustrative purposes only and are not meant to limit the scope of the claims.

The claimed subject matter is directed to a system for identifying an individual. *See* application at FIG. 5. In one aspect, as recited in independent claim 1, the system includes a display device (611) having pixels (102), each of which includes a light emitting element (106) and a sensor (101) for reading biological information of a user. *See* application at page 12, lines 5-9 and 23-24 and FIGS. 5, 7, and 8. The system also includes a flash memory (605) for storing reference biological information of the user. *See* application at page 10, lines 14-16 and FIG. 5. The system also includes means for judging legitimacy of the user by checking read biological information with the reference biological information (612) and means for transmitting information about the judgment to a destination of communication when the read biological information has matched the reference biological information (602). *See* application at page 10, lines 14-16 and 23-25 and FIG. 5. Each light emitting element includes a cathode, a light emitting layer, and an anode. *See* application at page 12, lines 23-24.

In another aspect, as recited in independent claim 7, the system for identifying an individual (*see* application at FIG. 5) includes a display device (611) having pixels (102), each of which includes a light emitting element (106) and a sensor (101) for reading biological information of a user. *See* application at page 12, lines 5-9 and 23-24 and FIGS. 5, 7, and 8. The system also includes a flash memory (605) for storing reference biological information of the user. *See* application at page 10, lines 14-16 and FIG. 5. The system also includes means for judging legitimacy of the user by checking read biological information with the reference biological information (612) and means for transmitting information about the judgment to a destination of communication when the read biological information has matched the reference biological information (602). *See* application at page 10, lines 14-16 and 23-25 and FIG. 5. The

system also includes means for notifying the user that communication between the user and the destination of communication has been authorized after the destination of communication receives information about the judgment (608 and 610). *See* application at page 3, lines 9-12 and FIG. 5. Each light emitting element includes a cathode, a light emitting layer, and an anode. *See* application at page 12, lines 23-24.

In another aspect, as recited in independent claim 35, the system for identifying an individual (*see* application at FIG. 5) includes a display device (611) having pixels (102), each of which includes a light emitting element (106) and a sensor (101) for reading biological information of a user. *See* application at page 12, lines 5-9 and 23-24 and FIGS. 5, 7, and 8. The system also includes a flash memory (605) for storing reference biological information of the user. *See* application at page 10, lines 14-16 and FIG. 5. The system also includes means for judging legitimacy of the user by checking read biological information with the reference biological information (612) and means for transmitting information about the judgment to a destination of communication through the Internet when the read biological information has matched the reference biological information (602). *See* application at page 10, lines 14-16 and 23-25 and FIG. 5. Each light emitting element includes a cathode, a light emitting layer, and an anode. *See* application at page 12, lines 23-24.

In another aspect, as recited in independent claim 43, the system for identifying an individual (*see* application at FIG. 5) includes a display device (611) having pixels (102), each of which includes a light emitting element (106) and a sensor (101) for reading biological information of a user. *See* application at page 12, lines 5-9 and 23-24 and FIGS. 5, 7, and 8. The system also includes a flash memory (605) for storing reference biological information of the user. *See* application at page 10, lines 14-16 and FIG. 5. The system also includes means for judging legitimacy of the user by checking read biological information with the reference biological information (612) and means for transmitting information about the judgment to a destination of communication through the Internet when the read biological information has matched the reference biological information (602). *See* application at page 10, lines 14-16 and 23-25 and FIG. 5. The system also includes means for notifying the user that communication between the user and the destination of communication has been authorized after the destination of communication receives information about the judgment (608 and 610). *See* application at

page 3, lines 9-12 and FIG. 5. Each light emitting element includes a cathode, a light emitting layer, and an anode. *See* application at page 12, lines 23-24.

Independent claim 51 is directed to a portable information device. *See* application at page 8, lines 8-10; page 9, lines 23-25; and FIGS. 2 and 6. The device includes a display device (611) having pixels (102), each of which includes a light emitting element (106) and a sensor (101) for reading biological information of a user. *See* application at page 12, lines 5-9 and 23-24 and FIGS. 5, 7, and 8. The device also includes a flash memory (605) for storing reference biological information of the user. *See* application at page 10, lines 14-16 and FIG. 5. The device also includes means for judging legitimacy of the user by checking read biological information with the reference biological information (612) and means for transmitting information about the judgment to a destination of communication when the read biological information has matched the reference biological information (602). *See* application at page 10, lines 14-16 and 23-25 and FIG. 5. Each light emitting element includes a cathode, a light emitting layer, and an anode. *See* application at page 12, lines 23-24.

In another aspect, as recited in independent claim 57, the portable information device (*see* application at page 8, lines 8-10; page 9, lines 23-25; and FIGS. 2 and 6) includes a display device (611) having pixels (102), each of which includes a light emitting element (106) and a sensor (101) for reading biological information of a user. *See* application at page 12, lines 5-9 and 23-24 and FIGS. 5, 7, and 8. The device also includes a flash memory (605) for storing reference biological information of the user. *See* application at page 10, lines 14-16 and FIG. 5. The device also includes means for judging legitimacy of the user by checking read biological information with the reference biological information (612) and means for transmitting information about the judgment to a destination of communication when the read biological information has matched the reference biological information (602). *See* application at page 10, lines 14-16 and 23-25 and FIG. 5. The device also includes means for notifying the user that communication between the user and the destination of communication has been authorized after the destination of communication receives information about the judgment (608 and 610). *See* application at page 3, lines 9-12 and FIG. 5. Each light emitting element includes a cathode, a light emitting layer, and an anode. *See* application at page 12, lines 23-24.

In another aspect, as recited in independent claim 85, the portable information device (*see* application at page 8, lines 8-10; page 9, lines 23-25; and FIGS. 2 and 6) includes a display device (611) having pixels (102), each of which includes a light emitting element (106) and a sensor (101) for reading biological information of a user. *See* application at page 12, lines 5-9 and 23-24 and FIGS. 5, 7, and 8. The device also includes a flash memory (605) for storing reference biological information of the user. *See* application at page 10, lines 14-16 and FIG. 5. The device also includes means for judging legitimacy of the user by checking read biological information with the reference biological information (612) and means for transmitting information about the judgment to a destination of communication through the Internet when the read biological information has matched the reference biological information (602). *See* application at page 10, lines 14-16 and 23-25 and FIG. 5. Each light emitting element includes a cathode, a light emitting layer, and an anode. *See* application at page 12, lines 23-24.

In another aspect, as recited in independent claim 93, the portable information device (*see* application at page 8, lines 8-10; page 9, lines 23-25; and FIGS. 2 and 6) includes a display device (611) having pixels (102), each of which includes a light emitting element (106) and a sensor (101) for reading biological information of a user. *See* application at page 12, lines 5-9 and 23-24 and FIGS. 5, 7, and 8. The device also includes a flash memory (605) for storing reference biological information of the user. *See* application at page 10, lines 14-16 and FIG. 5. The device also includes means for judging legitimacy of the user by checking read biological information with the reference biological information (612) and means for transmitting information about the judgment to a destination of communication through the Internet when the read biological information has matched the reference biological information (602). *See* application at page 10, lines 14-16 and 23-25 and FIG. 5. The device also includes means for notifying the user that communication between the user and the destination of communication has been authorized after the destination of communication receives information about the judgment (608 and 610). *See* application at page 3, lines 9-12 and FIG. 5. Each light emitting element includes a cathode, a light emitting layer, and an anode. *See* application at page 12, lines 23-24.

**(6) Grounds of Rejection to be Reviewed on Appeal**

I. Claims 1-3, 6-9, 12, 35, 38, 43, 46, 51-53, 56-59, 62, 85, 88, 93 and 96 have been rejected under 35 U.S.C. § 103(a) as being unpatentable over Ritter (U.S. Patent No. 6,657,538) in view of Harkin (U.S. Patent No. 6,327,376) and Wang (U.S. Patent No. 6,175,922).

II. Claims 109-116 have been rejected under 35 U.S.C. § 103(a) as being unpatentable over Ritter in view of Harkin, Wang and Nishimura (U.S. Patent No. 6,040,810).

**(7) Argument**

I. **Neither Ritter, Harkin, Wang, nor any proper combination of the three describes or suggests a display device having pixels, each of which includes a light emitting element and a sensor for reading biological information of a user.**

Claims 1-3, 6-9, 12, 35, 38, 43, 46, 51-53, 56-59, 62, 85, 88, 93 and 96 have been rejected under 35 U.S.C. § 103(a) as being unpatentable over Ritter in view of Harkin and Wang. Appellant respectfully requests reversal of this rejection because neither Ritter, Harkin, Wang nor any proper combination of the references describes or suggests a display device having pixels, each of which includes a light emitting element and a sensor for reading biological information of a user, as recited by each of independent claims 1, 7, 35, 43, 51, 57, 85 and 93.

The rejection acknowledges that Ritter does not disclose a display device having pixels, each of which includes a light emitting element and a sensor for reading biological information of a user, with the light emitting element including a cathode, a light emitting layer, and an anode. See Final Office Action of May 25, 2007 at page 4, lines 4-6. For these features, the rejection relies on Harkin. See Final Office Action of May 25, 2007 at page 4, lines 11-17.

However, Harkin does not describe or suggest a display device having pixels, each of which includes a light emitting element. Rather, Harkin discloses a liquid crystal (LC) display device in FIG. 6, see col. 9, lines 15-18, and, in particular, discloses that "LC display devices can be operable in a reflective mode, using for example ambient light, or in a transmissive mode in which case a backlight is normally provided adjacent the side of the device remote from the viewing side." Harkin at col. 9, lines 26-29 (referring to FIG. 6). Notably, Harkin's LC display device requires an ambient light source or a backlight, each of which is provided outside of the

display device. As such, Harkin does not disclose a display device having pixels, each of which includes a light emitting element, as recited by claims 1, 7, 35, 43, 51, 57, 85 and 93.

The rejection also alleges that Harkin inherently discloses that a light emitting element comprises a cathode, a light emitting layer, and an anode. See Final Office Action of May 25, 2007 at page 4, lines 15-17. To establish inherency, the extrinsic evidence “must make clear that the missing descriptive matter is *necessarily present* in the thing described in the reference, and that it would be so recognized by persons of ordinary skill. ... Inherency, however, may not be established by probabilities or possibilities. The mere fact that a certain thing may result from a given set of circumstances is not sufficient.” In re Robertson, 169 F.3d 743 (Fed. Cir. 1999) (emphasis added). Nothing in Harkin states that each pixel of Harkin's LC display device *necessarily* includes a light emitting element which includes a light emitting layer. In fact, as stated above, Harkin's LC display device requires an ambient light source or a backlight, each of which is provided outside of the display device and, therefore, Harkin teaches away from each pixel including a light emitting layer.

Harkin also shows a biometric sensor device in FIG. 5. However, the biometric sensor device does not include a display device or display elements. Rather, Harkin's FIG. 5 shows a contactless biometric sensor 60 that relies on use of light for sensing and is positioned behind the fingerprint sensing array 10. See Harkin at col. 7, line 55 to col. 8, line 1. Harkin indicates that “the sensor typically has light source, for example, LEDs, emitting red and infra-red light beams which are directed onto human tissue.” Harkin at col. 8, lines 3-5. Hence, although Harkin discloses in FIG. 5 and its related text that the biometric sensor may have a light source, Harkin does not disclose a display device or display elements associated with the biometric sensor.

Moreover, even assuming for the sake or argument only that Harkin's fingerprint sensing array 10 of FIG. 5 corresponds to the claimed display device, Harkin's fingerprint sensing array fails to disclose a display device having pixels, each of which includes a light emitting element and a sensor for reading biological information of a user. Rather, Harkin's contactless biometric sensor 60, not the fingerprint sensing array 10, includes the light source.

In addition, assuming for the sake or argument only that contactless biometric sensor 60 of FIG. 5 constitutes a display device, the sensor 60 still fails to include pixels, each of which

includes a light emitting element and a sensor for reading biological information of a user, since Harkin's contactless biometric sensor 60 does not include the fingerprint sensing array 10.

Appellant further notes that, in response to appellant's prior arguments, the Final Office Action of May 25, 2007 mischaracterizes appellant's argument that Harkin does not disclose "the fingerprint sensor and thin film components required for the array are fabricated directly on the same surface of the plate which carries the display elements," as arguing limitations not present in the claims. See Final Office Action of May 25, 2007 at page 3, lines 1-7 ("Response to Arguments" section). However, appellant was not asserting that these were features of the claims. Rather, appellant was rebutting the Examiner's assertion that: "Harkin further discloses the fingerprint sensor and the thin film components required for the array may be fabricated directly on the surface of the upper plate of the display (col. 9, lines 37-40), *thus the display device has pixels including a light emitting element and a sensor for reading biological information.*" Non-final Office Action of December 13, 2006 at page 3, lines 9-13 (emphasis added).

The rejection relies on Wang as disclosing a portable authorization device. However, Wang's portable authorization device does not remedy Ritter's and Harkin's failure to describe or suggest a display device having pixels, where each pixel includes a light emitting element and a sensor for reading biological information, as recited by independent claims 1, 7, 35, 43, 51, 57, 85 and 93.

Accordingly, neither Ritter, Harkin, Wang, nor any proper combination of the references, describes or suggests a display device having pixels, where each pixel includes a light emitting element and a sensor for reading biological information, as recited by claims 1, 7, 35, 43, 51, 57, 85 and 93.

For at least these reasons, appellant respectfully requests reversal of the rejection of independent claims 1, 7, 35, 43, 51, 57, 85 and 93, and their dependent claims 2, 3, 6, 8, 9, 12, 38, 46, 52, 53, 56, 58, 59, 62, 88 and 96.

## **II. The rejection based on Ritter, Harkin, Wang, and Nishimura**

Claims 109-116 have been rejected under 35 U.S.C. § 103(a) as being unpatentable over Ritter in view of Harkin, Wang and Nishimura. Each of claims 109-116 depends from one of



independent claims 1, 7, 35, 43, 51, 57, 85 and 93 and recites that the sensor includes a photodiode. Appellant respectfully requests this rejection be reversed for the reasons discussed above with respect to independent claims 1, 7, 35, 43, 51, 57, 85 and 93, and because Nishimura, which is cited as showing a sensor that is a photodiode, does not remedy the failure of Ritter, Harkin and Wang to describe or suggest a display device having pixels, where each pixel includes a light emitting element and a sensor for reading biological information of a user, as recited by independent claims 1, 7, 35, 43, 51, 57, 85 and 93.

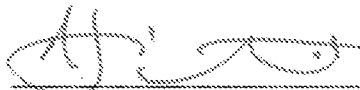
### III. Conclusion and Relief

Accordingly, for the foregoing reasons, the appellant respectfully requests reversal of the pending rejections.

In response to the Notification of Non-Compliant Appeal Brief dated February 12, 2008, appellant submits this Supplemental Appeal Brief. No fee is believed to be due in connection with the filing of this paper on the Electronic Filing System (EFS). In the event that any fees are due, please apply any charges or credits to deposit account 06 1050.

Respectfully submitted,

Date: 3/7/2008

  
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### Appendix of Claims

1. (Previously Presented) A system for identifying an individual, comprising:  
a display device having pixels, each of which includes a light emitting element and a sensor for reading biological information of a user;  
a flash memory for storing reference biological information of said user;  
means for judging legitimacy of the user by checking read biological information with the reference biological information; and  
means for transmitting information about the judgment to a destination of communication when the read biological information has matched the reference biological information,  
wherein  
the light emitting element comprises a cathode, a light emitting layer, and an anode.
2. (Previously Presented) A system according to claim 1, wherein said biological information of said user is a palm pattern or a fingerprint.
3. (Previously Presented) A system according to claim 2, wherein said palm pattern is a pattern of a part of the palm of the user.
- 4-5. (Cancelled)
6. (Previously Presented) A system according to claim 1, wherein said sensor comprises a contact type area sensor.
7. (Previously Presented) A system for identifying an individual, comprising:  
a display device having pixels, each of which includes a light emitting element and a sensor for reading biological information of a user;  
a flash memory for storing reference biological information of said user;

means for judging legitimacy of the user by checking read biological information with the reference biological information;

means for transmitting information about the judgment to a destination of communication when the read biological information has matched the reference biological information; and

means for notifying said user that communication between said user and said destination of communication has been authorized after said destination of communication receives information about the judgment,

wherein the light emitting element comprises a cathode, a light emitting layer, and an anode.

8. (Previously Presented) A system according to claim 7, wherein said biological information of a user is a palm pattern or a fingerprint.

9. (Previously Presented) A system according to claim 8, wherein said palm pattern is a pattern of a part of the palm of the user.

10-11. (Cancelled)

12. (Previously Presented) A system according to claim 7, wherein said sensor comprises a contact type area sensor.

13. (Withdrawn) A system for identifying an individual comprising:

a sensor-incorporated display of a portable communication device;

a means for reading biological information of a user by means of said sensor-incorporated display;

a means for checking read biological information with information stored in said portable communication device; and

a means for transmitting information about a checking result to a destination of communication in the case where the checking has matched.

14. (Withdrawn) A system according to claim 13, wherein all said means can be controlled by said user using operating keys provided on said portable communication device.

15. (Withdrawn) A system according to claim 14, wherein said operating keys can be controlled by only a dominant hand of said user.

16. (Withdrawn) A system according to claim 14, wherein said operating keys can be controlled by only index finger of said user.

17. (Withdrawn) A system according to claim 14, wherein said operating keys can be controlled by only thumb of said user.

18. (Withdrawn) A system according to claim 13, wherein operations are carried out at the same time as a power supply to said portable communication device.

19. (Withdrawn) A system according to claim 13, wherein said biological information of said user is a palm pattern or finger prints.

20. (Withdrawn) A system according to claim 19, wherein said palm pattern is the whole or a part of user's palm.

21. (Withdrawn) A system according to claim 13, wherein said sensor-incorporated display is a spontaneous light emitting display.

22. (Withdrawn) A system according to claim 13, wherein said sensor-incorporated display is an EL display.

23. (Withdrawn) A system according to claim 13, wherein said sensor-incorporated display is a contact type area sensor.

24. (Withdrawn) A system for identifying an individual comprising:  
a sensor-incorporated display of a portable communication device;  
a means for reading biological information of a user by means of said sensor-incorporated display;  
a means for checking read biological information with reference biological information stored in said portable communication device;  
a means for transmitting information about a checking result to a destination of communication in the case where the checking has matched; and  
a means for transmitting information that communication between said user and said destination of communication to said portable communication device has been authorized after said destination of communication receives information that said checking has matched.

25. (Withdrawn) A system according to claim 24, wherein all said means can be controlled by said user using operating keys provided on said portable communication device.

26. (Withdrawn) A system according to claim 25, wherein said operating keys can be controlled by only a dominant hand of said user.

27. (Withdrawn) A system according to claim 25, wherein said operating keys can be controlled by only index finger of said user.

28. (Withdrawn) A system according to claim 25, wherein said operating keys can be controlled by only thumb of said user.

29. (Withdrawn) A system according to claim 24, wherein operations are carried out at the same time as a power supply to said portable communication device.

30. (Withdrawn) A system according to claim 24, wherein said biological information of said user is a palm pattern or finger prints.

31. (Withdrawn) A system according to claim 30, wherein said palm pattern is the whole or a part of user's palm.

32. (Withdrawn) A system according to claim 24, wherein said sensor-incorporated display is a spontaneous light emitting display.

33. (Withdrawn) A system according to claim 24, wherein said sensor-incorporated display is an EL display.

34. (Withdrawn) A system according to claim 24, wherein said sensor-incorporated display is a contact type area sensor.

35. (Previously Presented) A system for identifying an individual, comprising:  
a display device having pixels, each of which includes a light emitting element and a sensor for reading biological information of a user;  
a flash memory for storing reference biological information of said user;  
means for judging legitimacy of said user by checking read biological information with the reference biological information; and  
means for transmitting information about the judgment to a destination of communication through the Internet when the read biological information has matched the reference biological information,  
wherein  
the light emitting element comprises a cathode, a light emitting layer, and an anode.

36-37. (Cancelled)

38. (Previously Presented) A system according to claim 35, wherein said sensor comprises a contact type area sensor.

39. (Withdrawn) A system for identifying an individual, comprising:  
a sensor-incorporated display of a portable communication device;  
a means for reading the biological information of a user by means of said sensor-incorporated display;  
a means for checking read biological information with reference biological information stored in said portable communication device; and  
a means for transmitting information about a checking result to a destination of communication through Internet, only in the case where it is judged necessary by said portable communication device or by the destination of communication.

40. (Withdrawn) A system according to claim 39, wherein said sensor-incorporated display is a spontaneous light emitting display.

41. (Withdrawn) A system according to claim 39, wherein said sensor-incorporated display is an EL display.

42. (Withdrawn) A system according to claim 39, wherein said sensor-incorporated display is a contact type area sensor.

43. (Previously Presented) A system for identifying an individual, comprising:  
a display device having pixels, each of which includes a light emitting element and a sensor for reading biological information of a user;  
a flash memory for storing reference biological information of said user;  
means for judging legitimacy of said user by checking read biological information with the reference biological information;  
means for transmitting information about the judgment to a destination of communication through the Internet when the read biological information has matched the reference biological information; and

means for notifying said user that communication between said user and said destination of communication has been authorized after said destination of communication receives information about the judgment,

wherein the light emitting element comprises a cathode, a light emitting layer, and an anode.

44-45. (Cancelled)

46. (Previously Presented) A system according to claim 43, wherein said sensor comprises a contact type area sensor.

47. (Withdrawn) A system for identifying an individual, comprising:  
a sensor-incorporated display of a portable communication device;  
a means for reading biological information of a user by means of said sensor-incorporated display;

a means for checking read biological information with reference biological information stored in said portable communication device;

a means for transmitting information about a checking result to a destination of communication through Internet, only in the case where it is judged necessary by said portable communication device or by the destination of communication; and

a means for transmitting information that the communication between said user and said destination of communication has been authorized to said portable communication device through the Internet, after said destination of communication receives information that said checking has matched.

48. (Withdrawn) A system according to claim 47, wherein said sensor-incorporated display is a spontaneous light emitting display.

49. (Withdrawn) A system according to claim 47, wherein said sensor-incorporated display is an EL display.



50. (Withdrawn) A system according to claim 47, wherein said sensor-incorporated display is a contact type area sensor.

51. (Previously Presented) A portable information device comprising:  
a display device having pixels, each of which includes a light emitting element and a sensor for reading biological information of a user;  
a flash memory for storing reference biological information of said user;  
means for judging legitimacy of the user by checking read biological information with the reference biological information; and  
means for transmitting information about the judgment to a destination of communication when the read biological information has matched the reference biological information,  
wherein  
the light emitting element comprises a cathode, a light emitting layer, and an anode.

52. (Previously Presented) A portable information device according to claim 51, wherein said biological information of said user is a palm pattern or a fingerprint.

53. (Previously Presented) A portable information device according to claim 52, wherein the palm pattern is a pattern of a part of the palm of the user.

54-55. (Cancelled)

56. (Previously Presented) A portable information device according to claim 51, wherein said sensor comprises a contact type area sensor.

57. (Previously Presented) A portable information device comprising:  
a display device having pixels, each of which includes a light emitting element and a sensor for reading biological information of a user;

a flash memory for storing reference biological information of said user;  
means for judging legitimacy of the user by checking read biological information with the reference biological information; and  
means for transmitting information about the judgment to a destination of communication when the read biological information has matched the reference biological information; and  
means for notifying said user that communication between said user and said destination of communication has been authorized after said destination of communication receives information about the judgment,  
wherein the light emitting element comprises a cathode, a light emitting layer, and an anode.

58. (Previously Presented) A portable information device according to claim 57, wherein said biological information of said user is a palm pattern or a fingerprint.

59. (Previously Presented) A portable information device according to claim 58, wherein the palm pattern is a pattern of a part of the palm of the user.

60-61. (Cancelled)

62. (Previously Presented) A method according to claim 57, wherein said sensor comprises a contact type area sensor.

63. (Withdrawn) A method for identifying an individual, comprising steps of:  
reading biological information of a user by means of a sensor-incorporated display of portable communication device;  
checking read biological information with reference biological information stored in said portable communication device; and  
transmitting information about a checking result to a destination of communication in the case where said checking has matched.

64. (Withdrawn) A method according to claim 63, wherein all said steps can be controlled by said user using operating keys provided on said portable communication device.

65. (Withdrawn) A method according to claim 64, wherein said operating keys can be controlled by only a dominant hand of said user.

66. (Withdrawn) A method according to claim 64, wherein said operating keys can be controlled by only index finger of said user.

67. (Withdrawn) A method according to claim 64, wherein said operating keys can be controlled by only thumb of said user.

68. (Withdrawn) A method according to claim 63, wherein operations are carried out at the same time as a power supply to said portable communication device.

69. (Withdrawn) A method according to claim 63, wherein said biological information of said user is a palm pattern or finger prints.

70. (Withdrawn) A method according to claim 69, wherein the palm pattern is the whole or a part of user's palm.

71. (Withdrawn) A method according to claim 63, wherein said sensor-incorporated display is a spontaneous light emitting display.

72. (Withdrawn) A method according to claim 63, wherein said sensor-incorporated display is an EL display.

73. (Withdrawn) A method according to claim 63, wherein a sensor that said sensor-incorporated display has is an area sensor of contact types.

74. (Withdrawn) A method for identifying an individual comprising steps of:  
reading biological information of a user by means of a sensor-incorporated display of portable communication device;  
checking read biological information with reference biological information stored in said portable communication device;  
transmitting information about a checking result to a destination of communication in the case where the checking has matched; and  
transmitting information that communication between said user and said destination of communication has been authorized to said portable communication device destination of communication receives information that said checking has matched.

75. (Withdrawn) A method according to claim 74, wherein all said steps can be controlled by said user using operating keys provided on said portable communication device.

76. (Withdrawn) A method according to claim 75, wherein said operating keys can be controlled by only a dominant hand of said user.

77. (Withdrawn) A method according to claim 75, wherein said operating keys can be controlled by only index finger of said user.

78. (Withdrawn) A method according to claim 75, wherein said operating keys can be controlled by only thumb of said user.

79. (Withdrawn) A method according to claim 74, wherein operations are carried out at the same time as a power supply to said portable communication device.

80. (Withdrawn) A method according to claim 74, wherein said biological information of said user is a palm pattern or finger prints.

81. (Withdrawn) A method according to claim 80, wherein the palm pattern is the whole or a part of user's palm.

82. (Withdrawn) A method according to claim 74, wherein said sensor-incorporated display is a spontaneous light emitting display.

83. (Withdrawn) A method according to claim 74, wherein said sensor-incorporated display is an EL display.

84. (Withdrawn) A method according to claim 74, wherein a sensor that said sensor-incorporated display has is an area sensor of contact types.

85. (Previously Presented) A portable information device comprising:  
a display device having pixels, each of which includes a light emitting element and a sensor for reading biological information of a user;  
a flash memory for storing reference biological information of said user;  
means for judging legitimacy of said user by checking read biological information with the reference biological information; and  
means for transmitting information about the judgment to a destination of communication through the Internet when the read biological information has matched the reference biological information,  
wherein  
the light emitting element comprises a cathode, a light emitting layer, and an anode.

86-87. (Cancelled)

88. (Previously Presented) A portable information device according to claim 85, wherein said sensor comprises a contact type area sensor.

89. (Withdrawn) A method for identifying an individual, comprising steps of:  
reading biological information of a user by means of a sensor-incorporated display of a portable communication device;  
checking read biological information with reference biological information stored in said portable communication device; and  
transmitting information about a checking result to a destination of communication through Internet, only in the case where it is judged necessary by said portable communication device or by the destination of communication.

90. (Withdrawn) A method according to claim 89, wherein said sensor-incorporated display is a spontaneous light emitting display.

91. (Withdrawn) A method according to claim 89, wherein said sensor-incorporated display is an EL display.

92. (Withdrawn) A method according to claim 89, wherein a sensor that said sensor-incorporated display has is an area sensor of contact types.

93. (Previously Presented) A portable information device comprising:  
a display device having pixels, each of which includes a light emitting element and a sensor for reading biological information of a user;  
a flash memory for storing reference biological information of said user;  
means for judging legitimacy of said user by checking read biological information with the reference biological information;  
means for transmitting information about the judgment to a destination of communication through the Internet when the read biological information has matched the reference biological information; and  
means for notifying said user that communication between said user and said destination of communication has been authorized after said destination of communication receives information about the judgment,

wherein the light emitting element comprises a cathode, a light emitting layer, and an anode.

94-95. (Cancelled)

96. (Previously Presented) A portable information device according to claim 93, wherein said sensor comprises a contact type area sensor.

97. (Withdrawn) A method for identifying an individual, comprising steps of:  
reading biological information of a user by means of a sensor-incorporated display of a portable communication device;  
checking read biological information with reference biological information stored in said portable communication device;  
transmitting information about a checking result to a destination of communication through Internet, only in the case where it is judged necessary at said portable communication device or at the destination of communication; and  
transmitting information to said portable communication device through the Internet, after said destination of communication receives information that said checking has matched, that the communication between said user and said destination of communication has been authorized.

98. (Withdrawn) A method according to claim 97, wherein said sensor-incorporated display is a spontaneous light emitting display.

99. (Withdrawn) A method according to claim 97, wherein said sensor-incorporated display is an EL display.

100. (Withdrawn) A method according to claim 97, wherein a sensor that said sensor-incorporated display has is an area sensor of contact types.

101-108. (Cancelled)

109. (Previously Presented) A system according to claim 1, wherein said sensor comprises a photodiode.

110. (Previously Presented) A system according to claim 7, wherein said sensor comprises a photodiode.

111. (Previously Presented) A system according to claim 35, wherein said sensor comprises a photodiode.

112. (Previously Presented) A system according to claim 43, wherein said sensor comprises a photodiode.

113. (Previously Presented) A system according to claim 51, wherein said sensor comprises a photodiode.

114. (Previously Presented) A system according to claim 57, wherein said sensor comprises a photodiode.

115. (Previously Presented) A system according to claim 85, wherein said sensor comprises a photodiode.

116. (Previously Presented) A system according to claim 93, wherein said sensor comprises a photodiode.



Applicant : Shunpei Yamazaki et al.  
Serial No. : 09/833,674  
Filed : April 13, 2001  
Page : 25 of 26

Attorney's Docket No.: 12732-028001 / US4856

### **Evidence Appendix**

None.

Applicant : Shunpei Yamazaki et al.  
Serial No. : 09/833,674  
Filed : April 13, 2001  
Page : 26 of 26

Attorney's Docket No.: 12732-028001 / US4856

### **Related Proceedings Appendix**

None.